	Application No.	Applicant(s)	
Notice of Allowability	10/615,406	. TOLLI ET AL.	
	Examiner	Art Unit	
	Brandon J. Miller	2617	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due cou	rse. THIS
1. This communication is responsive to 6/12/2007.			
2. X The allowed claim(s) is/are 1-18.			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Applicati cuments have been receive	on No d in this national stage application	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file MENT of this application.	e a reply complying with the require	ements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
 (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on t he header according to 37 C	he drawings in the front (not the bac FR 1.121(d).	k) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note DLOGICAL MATERIAL.	the
	·		
Attachment(s)	_		
1. ☑ Notice of References Cited (PTO-892)		formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), /Mail Date	
. ☐ Information Disclosure Statements (PTO/SB/08), 7. ☐ Examiner's Amendment Paper No./Mail Date		Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allowar	nce
	9. 🗌 Other		
		DUC M. NGUYEN SUPERVISORY PRIMARY EXAM	IINER
		TECHNOLOGY CENTER 260	

Art Unit: 2617

DETAILED ACTION

Response to Amendment

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

Claim 1 recites a method with a structure as defined in the specification (pages 6-17) including defining an amount of available capacity for non-real time use in a time slot; defining a number of sub-blocks reserved by a real-time use in a time slot; defining a number of sub-blocks reserved by non-real time use in a time slot; defining a number of free sub-blocks in a time slot based on the sub-blocks reserved by the real-time use and the sub-blocks reserved by the non-real time use; calculating a sub-block reservation rate for a time slot based on the number of free sub-blocks, the amount of available capacity for the non-real time use in the time slot and the number of sub-blocks in a time slot not reserved by real time use; and averaging a sub-block reservation rate for a time slot to determine a down link sub-block reservation rate. Applicant's independent claim 1 comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

Claims 3-8 are allowable based on their dependence of independent claim 1.

Claim 2 recites a method with a structure as defined in the specification (pages 6-17) including defining an amount of available capacity for non-real time use in a time slot; defining a number of sub-blocks reserved by a real-time use in a time slot; defining a number of sub-blocks reserved by non-real time use in a time slot; defining a number of free sub-blocks in a time slot based on the sub-blocks reserved by the real-time use and the sub-blocks reserved by the non-

Art Unit: 2617

real time use; calculating a sub-block reservation rate for a time slot based on the number of free sub-blocks, the amount of available capacity for the non-real time use in the time slot and the number of sub-blocks in a time slot not reserved by real time use; and averaging a sub-block reservation rate for a time slot to determine a down link sub-block reservation rate. Applicant's independent claim 2 comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

Claim 9 recites a network element with a structure as defined in the specification (pages 6-17) including defining an amount of available capacity for non-real time use in a time slot; defining a number of sub-blocks reserved by a real-time use in a time slot; defining a number of sub-blocks reserved by non-real time use in a time slot; defining a number of free sub-blocks in a time slot based on the sub-blocks reserved by the real-time use and the sub-blocks reserved by the non-real time use; calculating a sub-block reservation rate for a time slot based on the number of free sub-blocks, the amount of available capacity for the non-real time use in the time slot and the number of sub-blocks in a time slot not reserved by real time use; and averaging a sub-block reservation rate for a time slot to determine a down link sub-block reservation rate. Applicant's independent claim 9 comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

Claim 10 recites a network element with a structure as defined in the specification (pages 6-17) including defining an amount of available capacity for non-real time use in a time slot; defining a number of sub-blocks reserved by a real-time use in a time slot; defining a number of

Art Unit: 2617

sub-blocks reserved by non-real time use in a time slot; defining a number of free sub-blocks in a time slot based on the sub-blocks reserved by the real-time use and the sub-blocks reserved by the non-real time use; calculating a sub-block reservation rate for a time slot based on the number of free sub-blocks, the amount of available capacity for the non-real time use in the time slot and the number of sub-blocks in a time slot not reserved by real time use; and averaging a sub-block reservation rate for a time slot to determine a down link sub-block reservation rate.

Applicant's independent claim 10 comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

Claims 11-16 are allowable based on their dependence of independent claim 1.

Claim 17 recites a network element with a structure as defined in the specification (pages 6-17) including defining an amount of available capacity for non-real time use in a time slot; defining a number of sub-blocks reserved by a real-time use in a time slot; defining a number of sub-blocks reserved by non-real time use in a time slot; defining a number of free sub-blocks in a time slot based on the sub-blocks reserved by the real-time use and the sub-blocks reserved by the non-real time use; calculating a sub-block reservation rate for a time slot based on the number of free sub-blocks, the amount of available capacity for the non-real time use in the time slot and the number of sub-blocks in a time slot not reserved by real time use; and averaging a sub-block reservation rate for a time slot to determine a down link sub-block reservation rate. Applicant's independent claim 1 comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

Art Unit: 2617

Claim 18 recites a network element with a structure as defined in the specification (pages 6-17) including defining an amount of available capacity for non-real time use in a time slot; defining a number of sub-blocks reserved by a real-time use in a time slot; defining a number of sub-blocks reserved by non-real time use in a time slot; defining a number of free sub-blocks in a time slot based on the sub-blocks reserved by the real-time use and the sub-blocks reserved by the non-real time use; calculating a sub-block reservation rate for a time slot based on the number of free sub-blocks, the amount of available capacity for the non-real time use in the time slot and the number of sub-blocks in a time slot not reserved by real time use; and averaging a sub-block reservation rate for a time slot to determine a down link sub-block reservation rate. Applicant's independent claim 1 comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

· Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chang et al. U.S Patent No. 6,813,252 B2 discloses a method and system for interleaving of full rate channels suitable for half duplex operation and statistical multiplexing.

Has et al. U.S. Patent No. 7,248,571 B1 discloses a multi-user time slots for TDMA

Hamalainen et al. U.S. Patent No. 6,788,943 B1 discloses channel allocation in the base stations of a cellular radio system.

Macridis et al. U.S. Patent No. 7,133,418 B1 discloses a method and apparatus for allocating time slots within a frame of a TDMA frequency channel.

Art Unit: 2617

Manian et al. U.S. Patent No. 7,114,000 B1 discloses scheduling network traffic using multiple logical schedule tables.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon J. Miller whose telephone number is 571-272-7869.

The examiner can normally be reached on Mon.-Fri. 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

August 23, 2007

DUC M. NÖUYEN SUPERVISORY PRIMARY EXAMINER TECHNOLOGY CENTER 2600